Your quiz has been submitted successfully.

|  |
| --- |
| 53, 60, 22, 54, 10, 24, 23 |

The following questions will be based on the Binary Search Tree resulting from adding the data provided in this order: 53, 60, 22, 54, 10, 24, 23

|  |  |  |
| --- | --- | --- |
| **Question 1** |  | 0 / 1 point |

Draw the binary tree.

You should write it something like this

  A  
 /  \  
 B  C  
/ \  /  \  
 D E

                      53  
           22                 60  
     10        24      54  
             23

**This question has not been graded.**

**The correct answer is not displayed for Written Response type questions.**

|  |
| --- |
| [View Feedback](javascript://) |
| **Question 2** | |  | 1 / 1 point |

Indicate the in-order traversal display for the above Binary Tree?

|  |  |
| --- | --- |
| Answer: | 10 22 23 24 53 54 60 |

|  |  |  |
| --- | --- | --- |
| **Question 3** |  | 1 / 1 point |

Indicate the pre-order traversal display for the above Binary Tree?

|  |  |
| --- | --- |
| Answer: | 53 22 10 24 23 60 54 |

|  |  |  |
| --- | --- | --- |
| **Question 4** |  | 1 / 1 point |

What is the height of the binary tree?

|  |  |
| --- | --- |
| Answer: | 4 |

|  |  |  |
| --- | --- | --- |
| **Question 5** |  | 0 / 1 point |

Draw the binary tree.

You should write it something like this

  A  
 /  \  
 B  C  
/ \  /  \  
 D E

                               4  
                       1            10  
                                             16  
                                      14          22  
                                             15

|  |  |  |
| --- | --- | --- |
| **Question 6** |  | 1 / 1 point |

Indicate the in-order traversal display for the above Binary Tree?

|  |  |
| --- | --- |
| Answer: | 1 4 10 14 15 16 22 |

|  |  |  |
| --- | --- | --- |
| **Question 7** |  | 0 / 1 point |

Indicate the post-order traversal display for the above Binary Tree?

|  |  |
| --- | --- |
| Answer: | 4 1 10 16 14 15 22 |

**(/1, 15, 14, 22, 16, 10, 4/, /1,15,14,22,16,10,4/, /1.\*15.\*14.\*22.\*16.\*10.\*4/)**

What is the height of the binary tree?

|  |  |
| --- | --- |
| Answer: | 5 |

For the following numbers – what order do the numbers need to be entered in to keep this a complete tree after every step.

10, 22, 23, 24, 30, 54, 60

|  |  |  |
| --- | --- | --- |
| Answer: | post order | Incorrect Response |

**(/24, 22, 54, 10, 23, 30, 60/, /24,22,54,10,23,30,60/, /24.\*22.\*54.\*10.\*23.\*30.\*60/)**